

**STATEMENT OF WORK
FOR THE
SMALL ARMS WEAPONS DIVISION
Family of Muzzle Brakes and Suppressors
(FMBS)**

16 March 2011



**CRANE DIVISION
NAVAL SURFACE WARFARE CENTER**

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STATEMENT OF WORK FOR FAMILY OF MUZZLE BRAKES AND SUPPRESSORS (FMBS) PROCUREMENT

1. Scope

This Statement of Work (SOW) sets forth the requirements for the procurement of the Family of Muzzle Brakes and Suppressors (FMBS), a project of the United States Special Operations Command (USSOCOM) Weapon Accessories (WPAC) Program. The purpose of this SOW is to procure accessories that will meet the FMBS specification requirements at contract award. This SOW provides for the procurement, test, configuration management (CM), technical documentation, training, and Contractor Logistics Support (CLS).

1.1 Background

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2. Listing of Applicable Documents

The following specifications and standards form a part of this SOW to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the latest issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto.

2.1 Performance Specifications

Performance Specification for the FMBS-R/C PS/JXNLM/C11/0121

Performance Specification for the FMBS-LMG PS/JXNLM/C11/0122

2.2 Military Standards

MIL-STD-130N Identification Marking of U.S. Military Property

2.3 Department of Defense Handbooks

MIL-HDBK-61A Configuration Management Guidance

2.4 Non-Government Standards and Other Publications

ANSI/ASQC Q9001 Quality Systems – Model for Quality Assurance in Design / Q9000:1994 Development, Production, Installation and Servicing

ANSI/EIA-649A National Consensus Standard for Configuration Management Apr 04

2.5 Order of Precedence

In the event of a conflict between the text of this document and the references cited herein, the text of this document shall take precedence. Nothing in this document shall supersede applicable Federal, State, or Local Laws and regulations unless a specific exemption has been obtained.

2.6 Availability of DOD Documents

Government specifications, standards, and handbooks are available from the Standardization Document Order Desk, 700 Robbins Avenue, Building D, Philadelphia, PA 19111-5094. Non-Government Publications are available from the National Standards Institute, 11 West 42nd Street, New York, NY 10036.

3. Requirements

3.1 General

The Contractor shall provide the FMBS in accordance with the contract CLINs, CDRL items, and the Performance Specification. Hardware and data deliveries shall be IAW Section F of the contract.

3.1.1 Serial Number Reporting

The Contractor shall provide serial numbers for each delivered FMBS as an attachment, in Microsoft Excel format, to the invoice submitted in the Wide Area Workflow (WAWF).

3.2 Quality

3.2.1 Quality Program

The Contractor shall establish, implement, document, and maintain a quality system that ensures conformance to contractual requirements and meets the requirements of ANSI/ASQC Q9001 or an equivalent quality system model.

3.2.2 Testing

The Contractor shall make available for the Government's review, all previous and current test results concerning the performance, reliability, maintainability, environmental conditions, and safety of the FMBS.

3.3 Program Support

3.3.1 Contractor's Program Management

The Contractor shall develop and implement a management plan that clearly defines how the FMBS program will be managed and controlled. The Contractor shall be responsible for overall system performance and shall define and maintain appropriate subcontract and associated relationships to support all necessary requirements, allocations, and interfaces. The Contractor shall designate a single point of contact (POC) specifically charged with the responsibility for accomplishment of the performance and schedule requirements set forth by this SOW. The Government shall have access to the Contractor's facilities throughout the life of this SOW. The POC shall be the focal point for all technical communication.

3.3.2 Program Reviews

The Contractor shall be responsible for attending program reviews as mutually agreed upon with the Government. The Contractor shall convene the following described program reviews at the Contractor's facility. These reviews shall serve as a forum to resolve issues and exchange information in support of testing, production, repair, logistics support, and delivery. The Contractor shall ensure that appropriate personnel are available for conferences and reviews to address and resolve agenda items. Program reviews shall commence within 90 days after contract award. Subsequent program reviews shall convene as mutually agreed upon between the Contractor and the Government but no more frequently than quarterly. A maximum of four Program Reviews will be held per year with three at the Contractor's facility and one at NSWC Crane. The Contractor shall be prepared during all Program Reviews to address contract performance.

3.4 Failure Reporting, Analysis, and Corrective Action System (FRACAS)

The Contractor shall establish a FRACAS program for equipment and process reliability improvement that includes requirements for reporting, analyzing, and correcting system failures. The Contractor shall furnish a Failed Item Analysis Report for each failed item occurring during Acceptance Testing or Warranty Returns (i.e. Quality Deficiency Reports, etc). The Contractor shall have an established closed loop failure reporting system, procedures for analysis of failures to determine cause, and documentation for recording procedures for analysis of failures to determine cause, and documentation for recording corrective action taken. The Contractor shall have a mechanism in place to collect and report field product performance, problems, failures, and shall implement an effective cause and corrective action system. The Contractor's existing data collection, analysis, reporting and corrective action system shall be used for field failure reporting. Failure data shall be isolated to the lowest replaceable assembly (LRU). The field failure reporting and corrective action system shall identify failures, prioritize trends, analyze failure modes and causes, and track solution effectiveness. The Contractor shall provide a Failure Summary Analysis Report for each system repaired or replaced under warranty IAW CDRL A005.

3.5 Performance

The Contractor shall notify the Government of any and all performance related data that would both positively and negatively impact the reliability, maintainability, and/or

supportability of the FMBS. The Government may test, validate, verify, and/or certify any and all of the System performance parameters to verify compliance with the Performance Specification.

3.6 Configuration Management (CM)

The Contractor shall have an established CM program in place under the general guidance of MIL-HDBK-61A and shall provide for the configuration identification, control, and status accounting of all new and/or identified hardware, firmware, software, and documentation IAW ANSI/EIA 649A. The CM program shall address the Contractor's procedures for CM, reviews, and the preparation, review, and processing of Requests for Engineering Changes (CDRL A003) and Request for Deviations (CDRL A004). All baselines shall be documented in the Contractor's configuration status accounting database. The Contractor shall provide a top level system drawing for the FMBS IAW CDRL A006 to establish Nomenclature and National Stock Number (NSN) assignment. In addition an organizational and depot level spares drawing, once agreed with the Government, shall also be submitted IAW CDRL A006. These drawings shall be submitted as required whenever a configuration change causes changes or revision to these drawings for Government approval. The latest revision of drawings shall be submitted to the Government throughout the life of the contract within 30 days of any change.

3.6.1 Configuration Identification (CI)

The Functional Baseline and Product Baseline shall identify the hardware configuration of the FMBS. The Functional Baseline is defined by the system specification. The Product Baseline (PBL) is defined by the Engineering Drawings and Associated Parts Lists.

3.6.2 Configuration Control

The hardware PBL shall be controlled by Form, Fit, Function, Interchangeability, and Interoperability in consonance with the Government Maintenance Concept of Organizational to Contractor Logistics Support. The Contractor shall submit for Government approval, all proposed changes that impact the Form, Fit, Function, Interchangeability, Interoperability, or Safety of the current system configuration in accordance with the Contract Data Requirements Lists.

3.6.2.1 Engineering Change Proposal (ECP)

The Contractor shall prepare an ECP for any changes to the approved Functional and/or Product Baseline. The Government shall determine if a change shall be designated as Class I or Class II. Class I ECPs shall require at a minimum a Revision or Part Number change to the FMBS dependent upon system impact to form, fit, function, or cost. The Government shall dictate to the Contractor whether a Part Number or Revision to the FMBS is required for a Class I ECP. Any Requests for Deviations shall be submitted through the Contracting Officer for Government review and approval. The Contractor shall provide ECPs via electronic mail and hard copy for Government review and approval IAW CDRL A003.

3.6.2.2 Non-Class I Changes

For those changes not affecting form, fit, or function the Government will review the proposed changes and provide concurrence. The Government shall obtain concurrence prior to or concurrent with the release of the Class II changes. The Contractor assumes total risk for implementation of changes prior to notification of Government concurrence.

3.6.3 Configuration Status Accounting (CSA)

All baselines, ECPs and deviations shall be documented in the Contractor's CSA database. The Government will utilize the CSA database as the single tracking system for each configured hardware and software item. The Contractor shall provide the Government the CSA database via electronic media and hard copy IAW CDRL A002.

3.7 Integrated Logistic Support (ILS)

3.7.1 Warranty Repair

The Contractor shall provide a standard one year commercial warranty.

3.7.2 Labeling and Marking

Labeling and marking requirements shall be IAW MIL-STD-130N and the applicable requirements of the performance specification as stated in 3.13 and 3.13.1. The Contractor shall provide, on the outside packaging of each FMBS, serial number information in human and machine readable form.

3.7.2.1 Unique Item Identification (UID)

The Contractor shall provide DOD unique item identification (UID) for each FMBS. The Contractor shall register and validate all UIDs with the DOD UID Registry and shall ensure all item parent/child relationships are accurately recorded in the UID Registry. All parts markings shall be in accordance with MIL-STD-130N and DFARS 252.211-7003. The Contractor shall ensure that the UID marking location will be optimized for ease of scanning and shall avoid applying UID markings on curved or rounded surfaces. The Contractor shall include human readable information of the 2D Data Matrix as part of the UID mark where adequate space is available. At a minimum the machine readable information (MRI) shall include:

- UID (concatenated, either construct 1 or 2)
- Issuing Agency Code
- Enterprise Identifier
- Original Part Number
- Serial Number

3.7.3 Operators / Maintenance Technical Manual

The Contractor shall provide an Operators Manual as specified in CDRL A007. The Contractor shall have a process in place that provides for the validation of the adequacy and technical accuracy of the Technical Manual. The Government will verify and approve the accuracy and completeness of the Technical Manual. Any discrepancies shall be corrected by the Contractor at no additional expense to the Government.

3.8 Environmental and Hazardous Material (Hazmat)

The Contractor shall have an established Environmental and Hazmat program to ensure the system design, development, testing evaluation, operations, and maintenance comply with federal, state, and local environmental laws, regulations, shipping regulations, policies, treaties, and agreements. The Contractor shall perform a comprehensive Environmental Safety and Health (ESH) analysis and provide an Environmental, Safety, and Health Plan addressing Environmental Safety Hazards and support requirements associated with using hazardous materials, and cost effective pollution prevention programs. The Contractor shall ensure the environmental and hazard analysis complies with DOD Directive 5000.2-R, paragraph 4.3.7. The Contractor shall identify all non-metallic materials contained in the FMBS. The Contractor shall provide this data to the Government in a System Safety Hazard Analysis Report IAW CDRL A001.